ABSTRACT

**Channel Estimation in a
Multi Carrier Transmit Diversity System**

A method and a stage (60) for estimating channel coefficients
in a multi carrier system operating in accordance with a block-
code based transmit diversity scheme, in which a data content
of a code matrix is multiplexed in a frequency domain are
described. The method comprises determining a phase ramp (φ_{est})
in the frequency domain or an equivalent (Δt) thereof in the
time domain, the phase ramp (φ_{est}) or the equivalent (Δt)
thereof being comprised within a receive signal (**Y**) after
timing synchronization, processing the receive signal (**Y**$_{\Delta t}$) to
remove the phase ramp (φ_{est}) or the equivalent (Δt) thereof and
estimating the channel coefficients on the basis of the proc-
essed receive signal.

(Fig. 11)

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